U.S.

### **UTILITY PATENT APPLICATION TRANSMITTAL** (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No. 11675.22.2.1.3.1

Total Pages in this Submission

#### TO THE COMMISSIONER FOR PATENTS

**Mail Stop Patent Application** 

			P.O. Box 1450 Alexandria, VA 22313-1450	S
Transi	mitted	her	rewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for	· ⊃
inventi	ion en	title	ed:	an 25827
ME'	THOI	O OF	F MAKING VERTICAL DIODE STRUCTURES	3
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and in Feri			/: nzalez	
Tyle	r Lov ng Do	vrev		
Ray	Turi		stenholme	
If a C	ONTI	NUA	ATION APPLICATION, check appropriate box and supply the requisite information:	
	<b></b>			
			dication is a continuation of Application No. 10/104,240, filed March 22, 2002, which is	
			al of Application No. 09/505,953, filed on February 16, 2000, which is a divisional ion No. 09/150,317, filed on September 9, 1998, now U.S. Patent No. 6,194,746, which i	
(	divisi	ona	al of Application No. 08/932,791, filed on September 5, 1997, now U.S. Patent N	No.
	5,854 abanc		2, which is a continuation of Application No. 08/609,505, filed on March 1, 1996, n	ow
Enclo			ea.	
LIIOIO	ocu a	ю.	Application Elements	
1.		Filin	ng fee as calculated and transmitted as described below	
2.	X	Spe	ecification having pages and including the following:	
	a.	$\boxtimes$	Descriptive Title of the Invention	
	b.	X	Cross References to Related Applications (if applicable)	
	C.		Statement Regarding Federally-sponsored Research/Development (if applicable)	
	d.		Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix	
	e.	$\boxtimes$	Background of the Invention	
	f.	X	Brief Summary of the Invention	
	g.	$\boxtimes$	Brief Description of the Drawings (if filed)	
	h.	×	Detailed Description	
	i.	×	Claim(s) as Classified Below	
	j.	$\boxtimes$	Abstract of the Disclosure	



PTO

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### **Application Elements (Continued)**

3.	$\boxtimes$	Drawing(s) (when necessary as prescribed by 35 USC 113)								
	a.									
	b.	☐ Informal Number of Sheets								
4.	$\boxtimes$	Oath or Declaration								
	a.	☐ Newly executed (original or copy) ☐ Unexecuted								
	b.	□ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)								
	C.	☑ With Power of Attorney ☐ Without Power of Attorney								
	d.	DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).								
5.	X	Incorporation By Reference (usable if Box 4b is checked)  The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.								
6.		CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)								
7.		Application Data Sheet (See 37 CFR 1.76)								
8.		Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)								
	a.	☐ Computer Readable Form (CRF)								
	b.	☐ Specification Sequence Listing on:								
		i. CD-ROM or CD-R (2 copies); or								
		ii. 🔲 Paper								
	C.	☐ Statement(s) Verifying Identical Paper and Computer Readable Copy								
		Accompanying Application Parts								
9.	X	Assignment Papers (cover sheet & document(s))								
10.		37 CFR 3.73(B) Statement (when there is an assignee)								
11.		English Translation Document (if applicable)								
12.		Information Disclosure Statement/PTO-1449   Copies of IDS Citations								
13.		Preliminary Amendment								
14.	X	Return Receipt Postcard (MPEP 503) (Should be specifically itemized)								
15.		Certified Copy of Priority Document(s) (if foreign priority is claimed)								
16.	X	Certificate of Mailing								
	☐ First Class ☒ Express Mail (Specify Label No.): EV 382 939 223 US									

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Docket No. 11675.22.2.1.3.1

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4

### **Accompanying Application Parts (Continued)**

	Accompanying Application Parts (Continued)			
17. 🗵	Additional Enclosures (please identify below):			
	The Parent Application is assigned of record to Micron Technology, Inc., as recorded at reel 8116, frame 0351			
	Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)			
18. 🗆	Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.			
	Warning Warning			
	An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.			

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#### Fee Calculation and Transmittal

#### **CLAIMS AS FILED** For #Filed #Allowed #Extra Rate Fee **Total Claims** 20 - 20 = \$0.00 0 \$18.00 х Indep. Claims 2 - 3 = 0 \$86.00 \$0.00 Multiple Dependent Claims (check if applicable) \$0.00 **BASIC FEE** \$0.00 OTHER FEE (specify purpose) \$0.00 TOTAL FILING FEE \$0.00 ☐ A check in the amount of to cover the filing fee is enclosed. ☐ The Director is hereby authorized to charge and credit Deposit Account No. as described below. ☐ Charge the amount of as filing fee. ☐ Credit any overpayment. ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17. ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b). William J. Athay Dated: March 19, 2004 Registration No. 44,515 Customer No. 022901

CC:

CERTIFICATE OF N Applicant(s): Gonzalez, e	Docket No. 11675.22.2.1.3.1								
Serial No. Not yet assigned	Filing Date March 19, 2004	Examiner Not yet assigned	Group Art Unit Not yet assigned						
Invention: METHOD OI	F MAKING VERTICAL DIODE	STRUCTURES							
I hereby certify that the	following correspondence:								
Transmittal Letter (4 pg	gs, in triplicate); Patent Application attorney, and Petition (5 pgs.); pos								
	(Identify type o	f correspondence)							
is being deposited with	is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under								
CFR 1.10 in an envelop	pe addressed to: Commissioner	for Patents, P.O. Box 1450, Alex	andria, VA 22313-1450 or						
	March 19, 2004 (Date)								
	·	Mandy Lome (Typed or Printed Name of Person Man (Signature of Person Mailing Co	ling Correspondence)  ,  prespondence)						

Note: Each paper must have its own certificate of mailing.